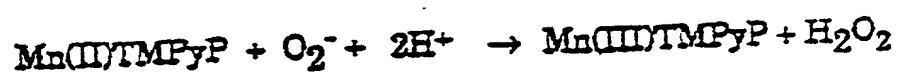
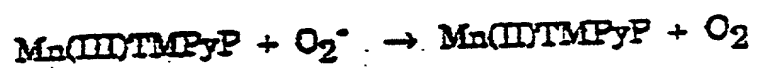


Figure 1

Mechanism



FO6001" 52F08860

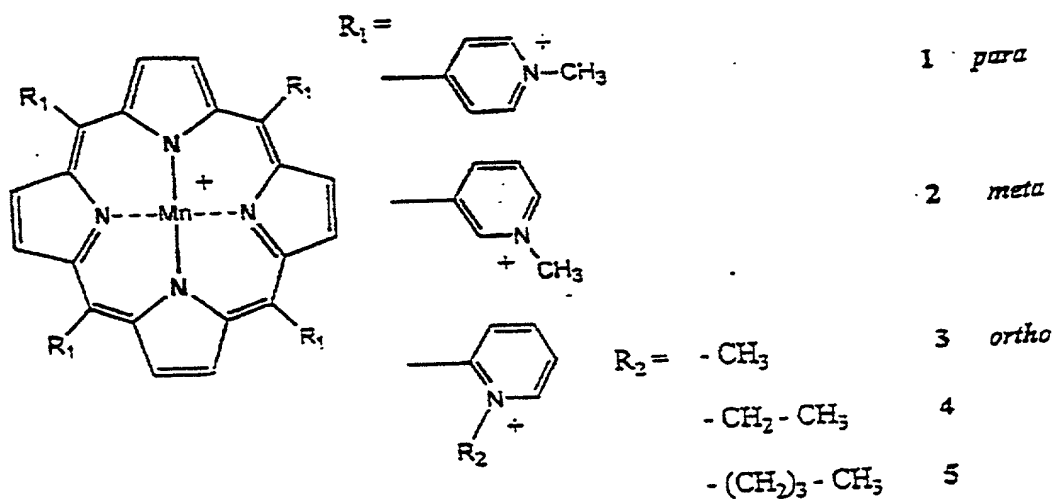


Figure 2. Manganese *meso*-tetraKis *N*-alkyl-pyridinium based porphyrins

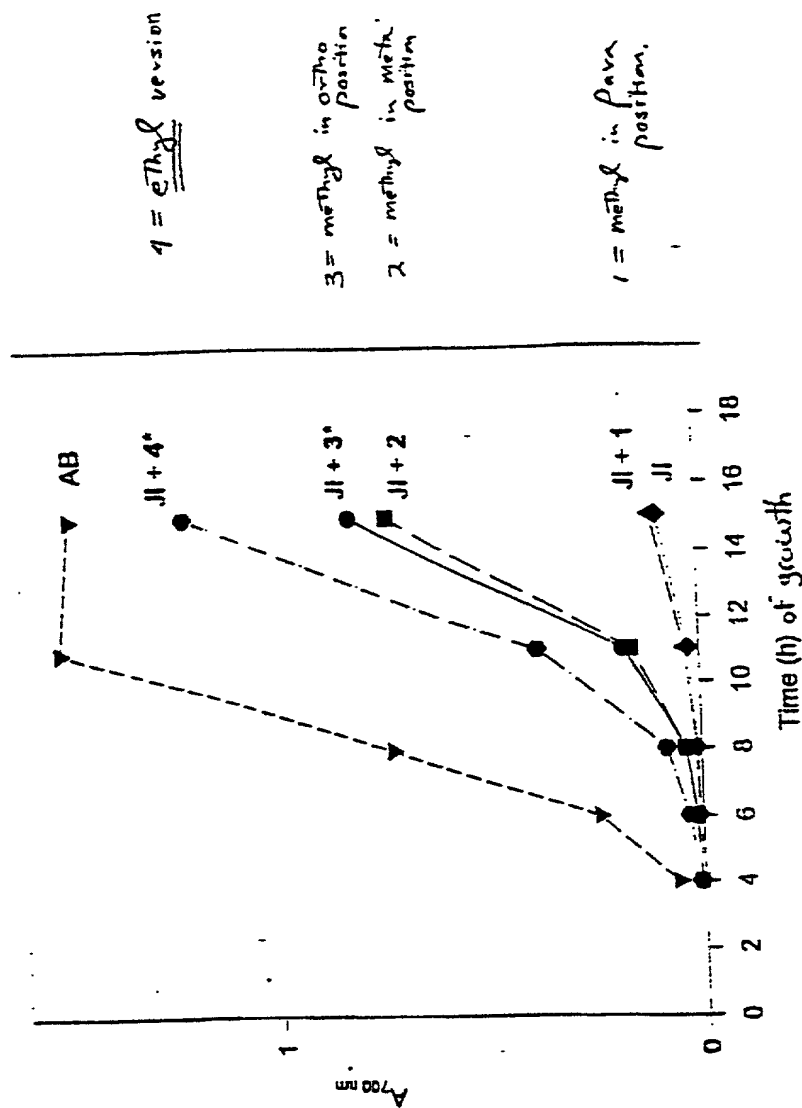
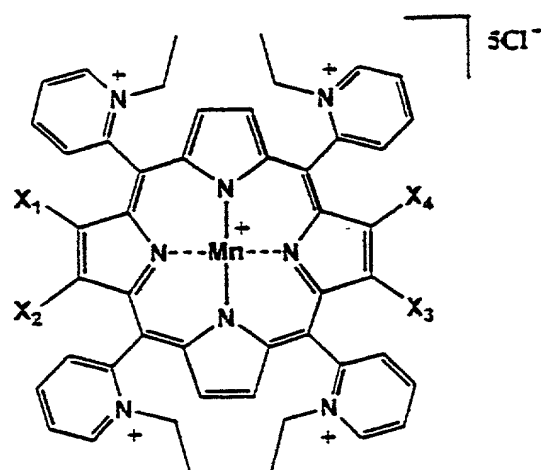


Figure 3 SOD activity in vivo (*E. coli*) of 1, 2, 3* and 4* (25 μ M) in minimal medium (*mixture of atropisomers, JI = SODs deficient strain, AB = parental strain).



MnTE-2-PyP^{5-}	$\text{X}_1=\text{X}_2=\text{X}_3=\text{X}_4=\text{H}$
$\text{MnCl}_1\text{TE-2-PyP}^{5-}$	$\text{X}_1=\text{Cl}, \text{X}_2=\text{X}_3=\text{X}_4=\text{H}$
$\text{MnCl}_2\text{TE-2-PyP}^{5-}$	$\text{X}_1=\text{X}_2=\text{Cl}, \text{X}_3=\text{X}_4=\text{H}$
$\text{MnCl}_3\text{TE-2-PyP}^{5-}$	$\text{X}_1=\text{X}_2=\text{X}_3=\text{Cl}, \text{X}_4=\text{H}$
$\text{MnCl}_4\text{TE-2-PyP}^{5-}$	$\text{X}_1=\text{X}_2=\text{X}_3=\text{X}_4=\text{Cl}$

Figure 4

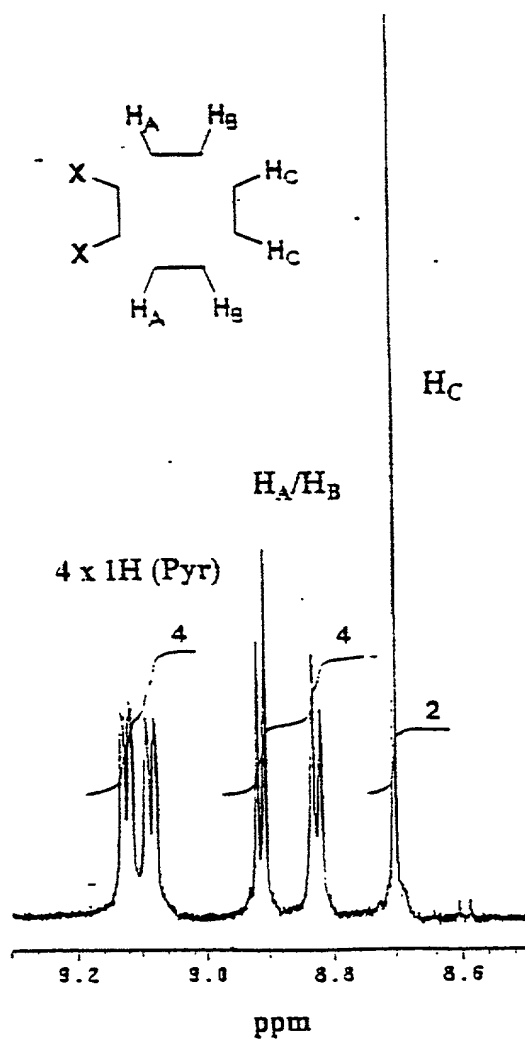


Figure 5

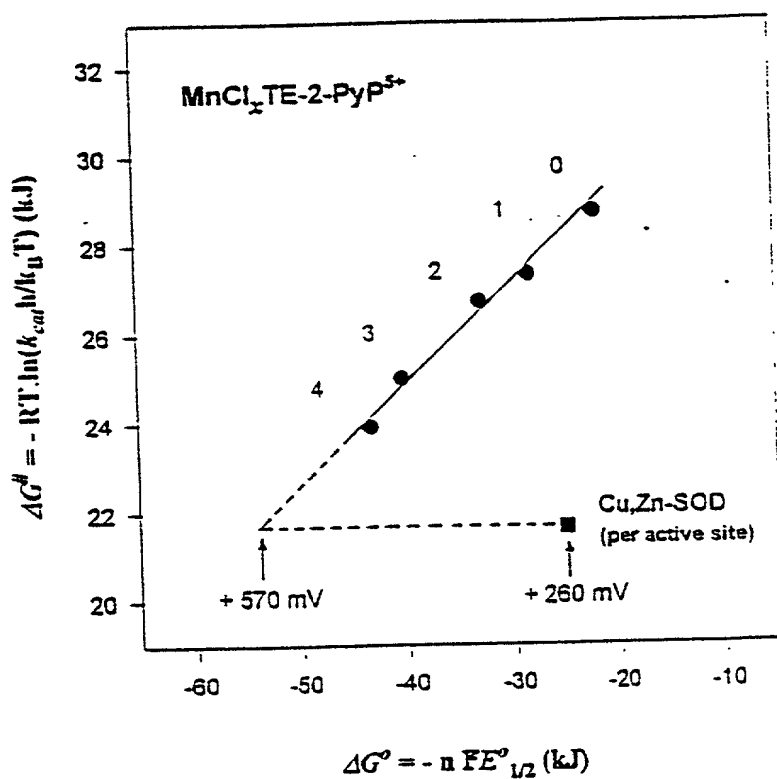


Figure 6

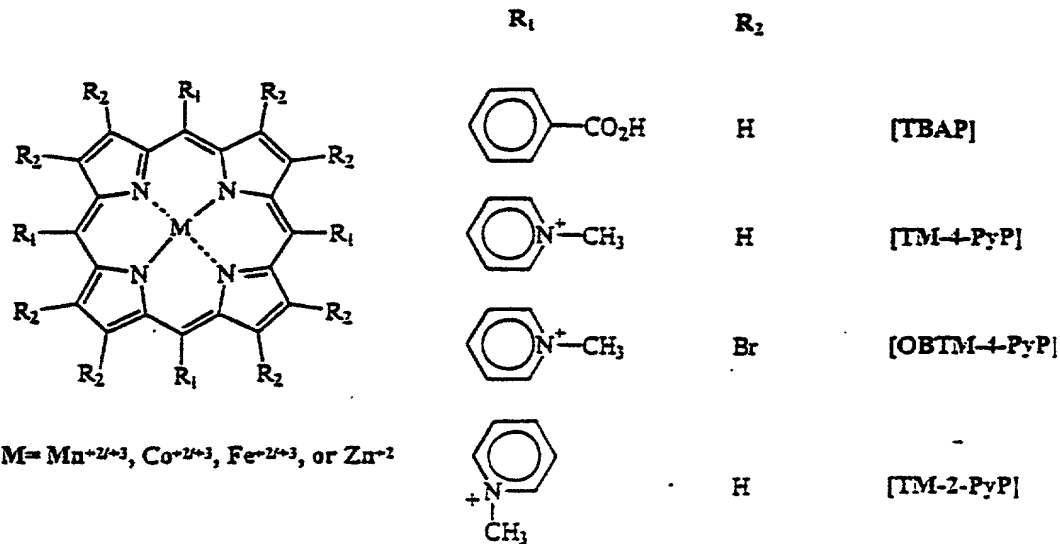
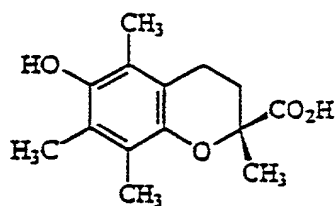
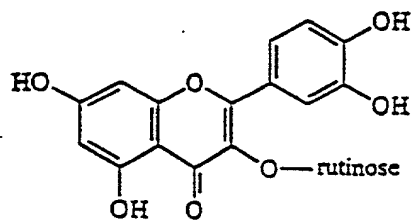
A**Metalloporphyrins****B****Trolox****C****(+)-Rutin**

Figure 7

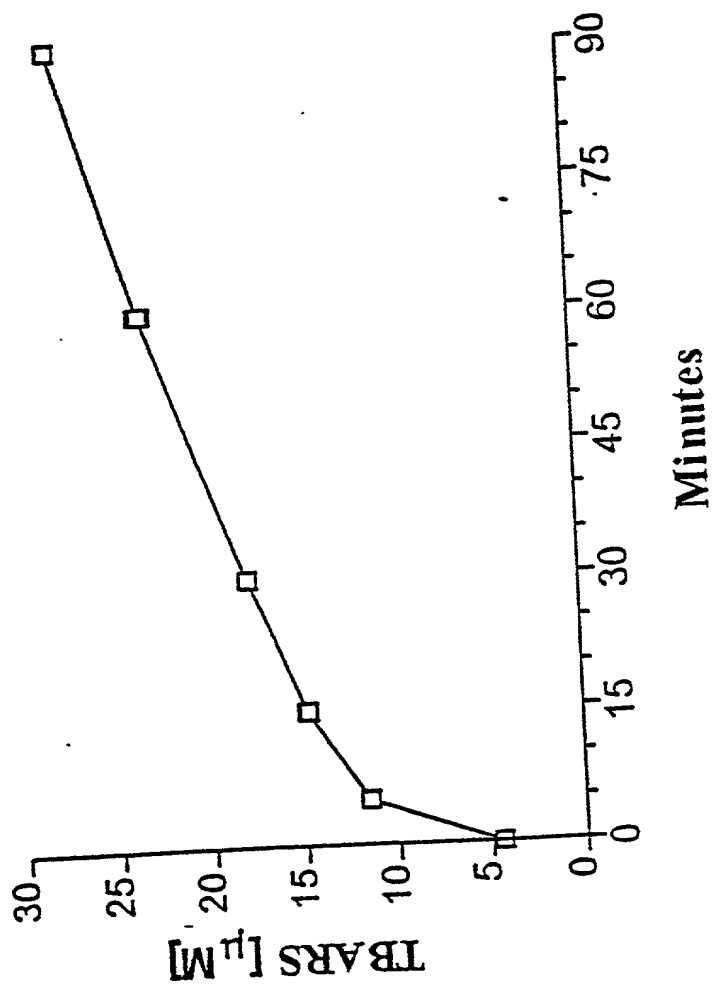


Figure 8

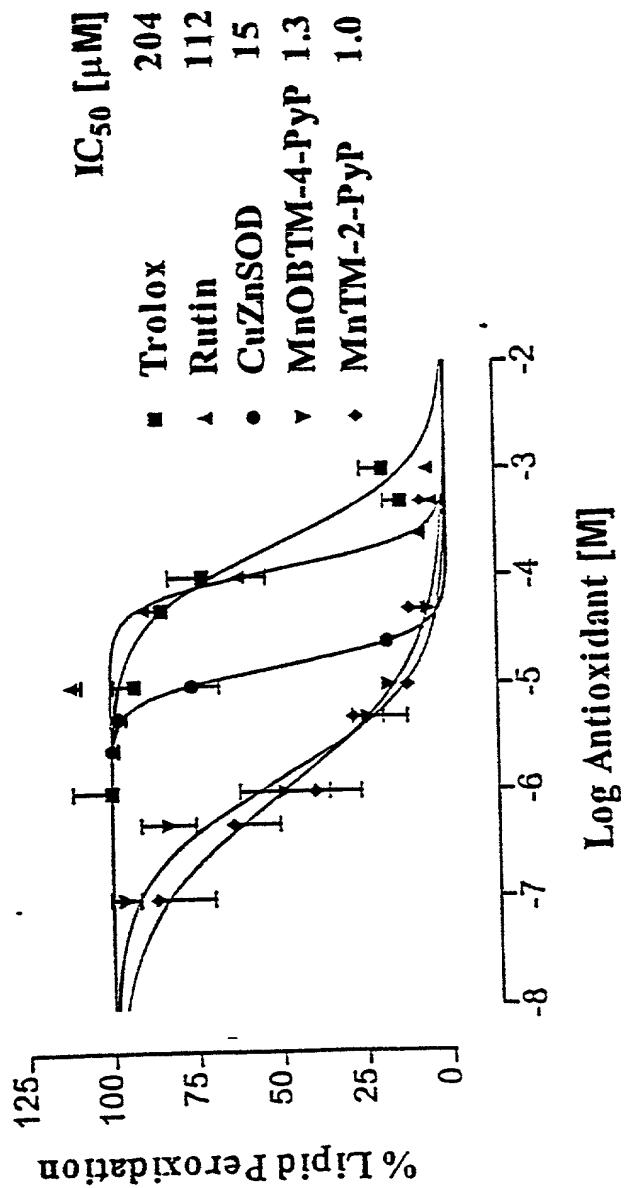


Figure 9

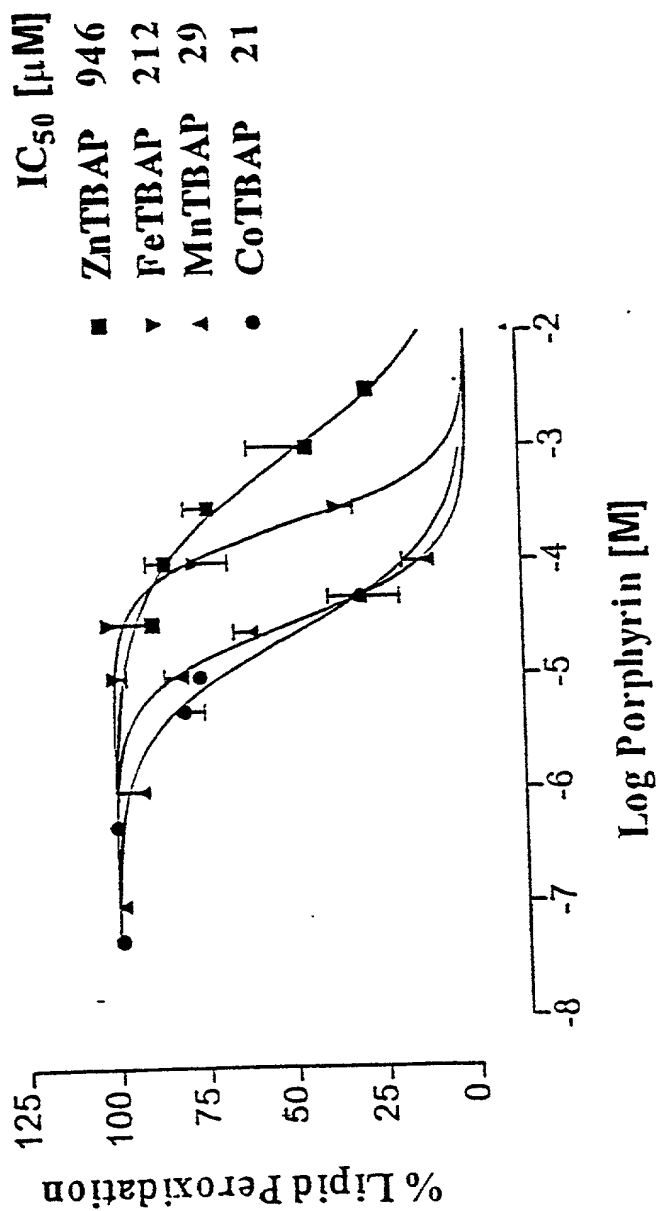


Figure 10

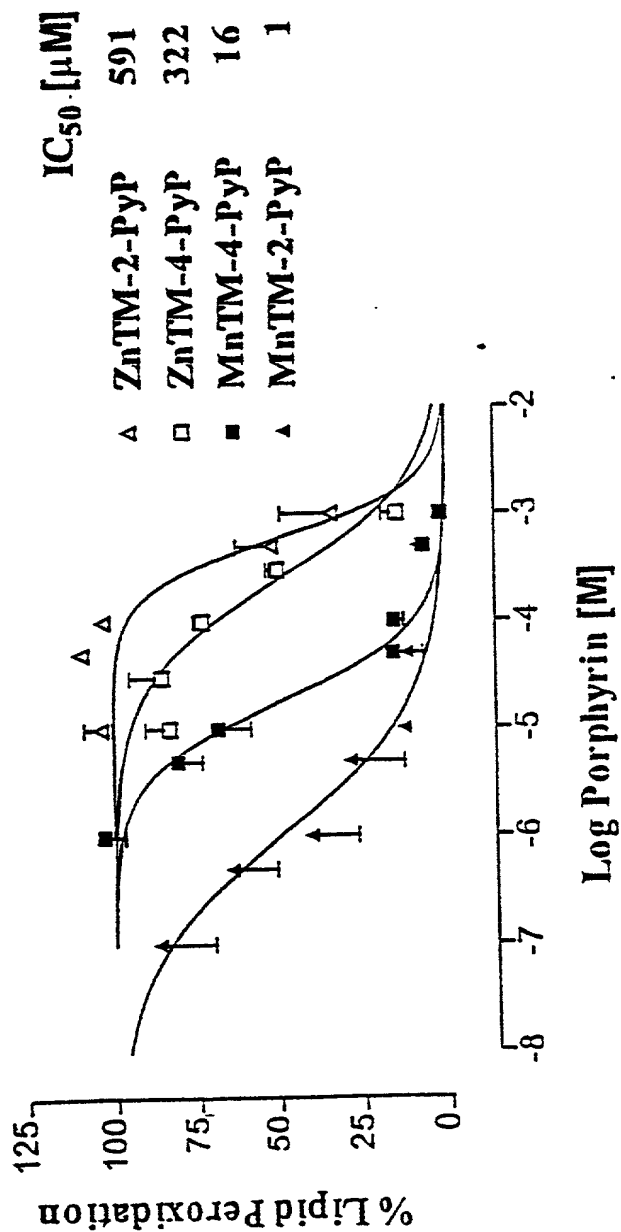


Figure 11